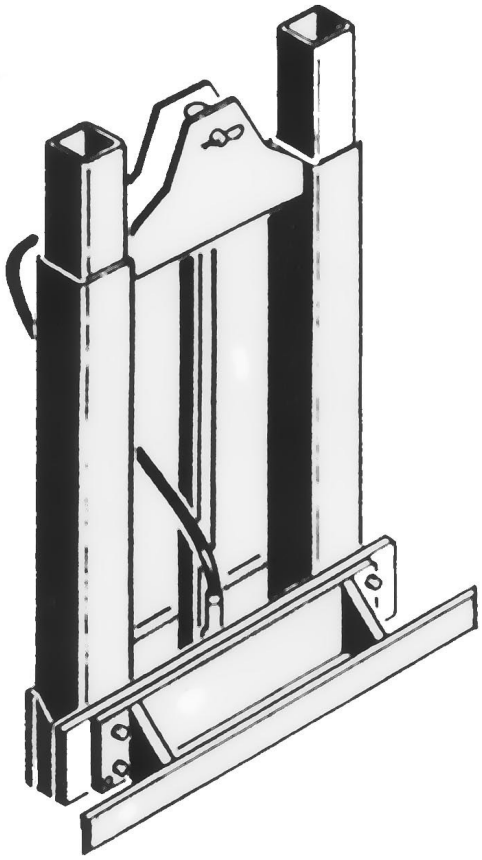
Operating instructions

Column lifter S-2
for standard tractors



Manufacturer:

CLEMENS GmbH & Co
Maschinenfabrik
Rudolf - Diesel - Strasse 8
D-54516 Wittlich / Mosel

Serial No.:

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Note :

The manufacturer cannot accept any liability for damage and losses due to non-compliance with the Operating Instructions or to the use of impermissible spare parts.
The column lifter must not be modified, extended or converted in any way capable of impairing its safety without the manufacturer's prior consent.

Subject to change without notice!

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1. Foreword:

Dear user !

The **CLEMENS column lifter S-2** is a product from the range of **All-around weeders from CLEMENS** which will make it very much easier for you to maintain your vineyard all around the vine.

So that the column lifter can be used safely and correctly for its intended purpose, it is essential to read these Operating Instructions before using the product and scrupulously to follow all the instructions.

Ensure that you are familiar with the principle of operation of the column lifter and other fitted attachments before starting work.

General note :

- The column lifter may only be operated when all guards and safety mechanisms are in place and functioning correctly.

- All faults and malfunctions capable of impairing safety must be remedied immediately by specialist personnel.

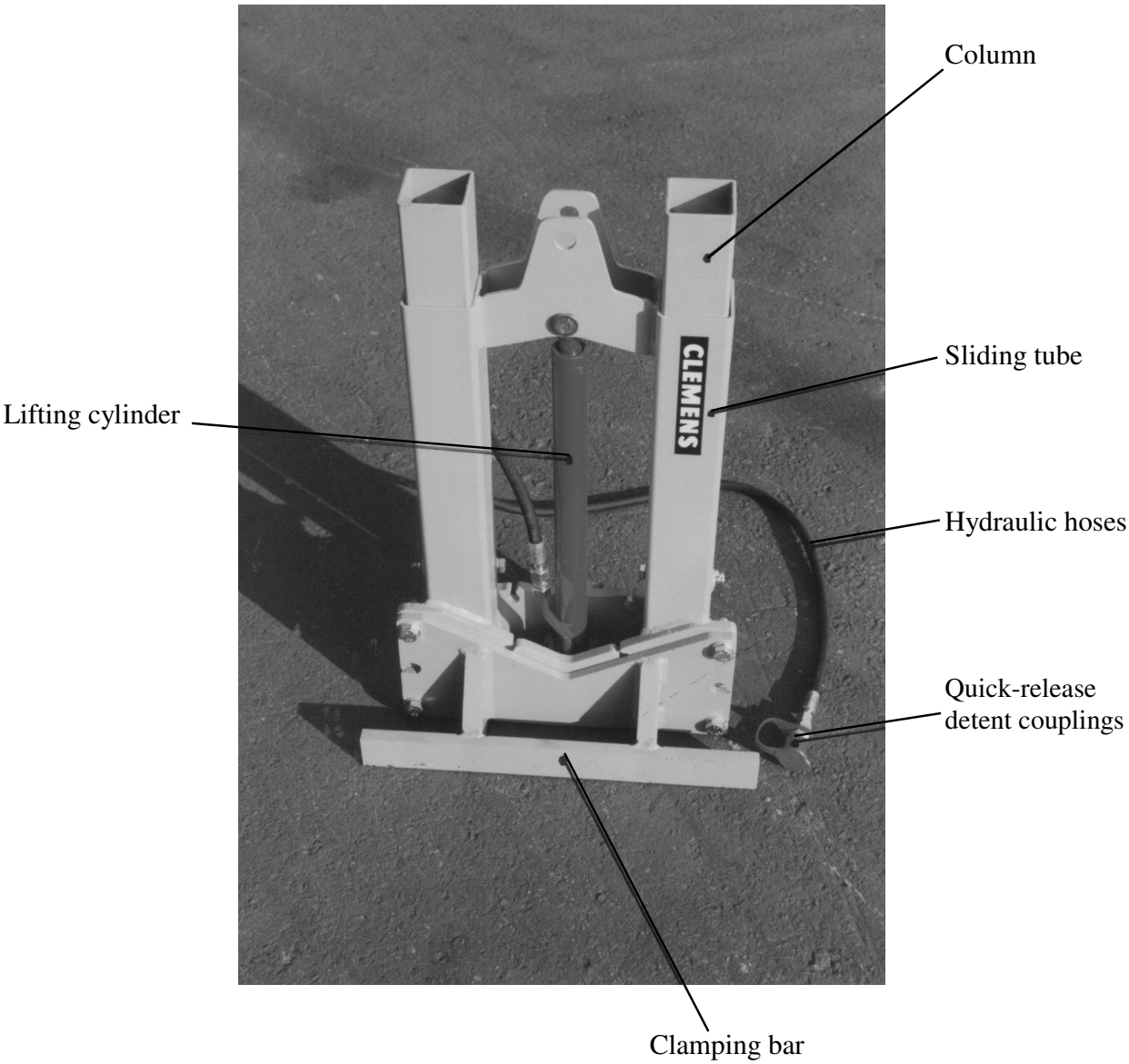
- The column lifter may only be used to lift out tillage implements mid-mounted on the tractor.

- The hydraulic connections of the column lifter must not be modified, as this will lead to malfunctions and endanger both yourself and other people.

- Repairs should only be carried out by specialist repair shops or the CLEMENS Customer Service Centre. Never undertake any unauthorized modifications on the device.

- The instructions supplied with the attachments must also be read with care.

Figure 1: Column lifter S-2



2. Description of the column lifter S-2: (See fig. 1)

The **CLEMENS column lifter S-2** essentially comprises the following components:

- Column
- Sliding tube
- Lifting cylinder with hydraulic hoses
- Clamping bar

The column lifter is secured to the square block on the mounting bracket of your tractor by means of four clamping screws.
If your tractor does not include a mounting bracket, contact your dealer to obtain a suitable mounting bracket which the dealer can then install on your tractor.

The installation of the mounting bracket can be one-sided as well as double-sided.

The underlying principle of the column lifter is that a single-acting hydraulic cylinder raises or lowers your attachment when the hydraulic control is actuated from the driver's seat. The hydraulic cylinder has a maximum stroke length of 400 mm (15.7“).

The column lifter is also optionally available with a double-acting hydraulic cylinder.

3. Functional description and possibilities for installation:

* Before using for the first time:

- Read the Operating Instructions through carefully and ensure that you are familiar with the mode of operation of the column lifter and attachments.

- Check that the hydraulic connections of the column lifter match those on your tractor.

* Possibilities for installation:

The column lifter S–2 is secured to the square block on the mounting bracket of your tractor by means of four clamping screws.
If your tractor does not include a mounting bracket, contact your dealer to obtain a suitable mounting bracket which the dealer can then install on your tractor.

In order to install the column lifter, it can be raised with the aid of a hoist (e.g. chain hoist) and mounted on the tractor. It can be suspended from the crane lug at the top of the column lifter.

The column lifter S–2 is connected to the hydraulic system of the tractor by means of quick-release detent couplings.

* Mounting attachments on the column lifter:

Attachments are mounted on the column lifter by sliding the clamping bracket of the attachment over the clamping bar of the column lifter and clamping them together by means of the clamping device provided on the attachment.
The connection of the hydraulic hoses of the appliances is made in accordance with the attached hydraulic scheme by quick-release detent couplings. Please observe the operating instructions of the appliance.

4. Maintenance and care:

The column lifter is designed to require minimum maintenance and care.

The following points must be noted, however:

- All screws and bolts must be checked after the first five hours of operation in order to ensure that they are secure.

- When cleaning the column lifter with a high-pressure cleaner and fitted attachments, care must be taken to ensure that the high-pressure jet is not directed towards bearings and seals or hydraulic connections, as this could lead to damage and premature failure of the lifter.

- After cleaning, the guideways should be lightly greased with sulphur-free grease. This increases the service life of your column lifter.

- The hydraulic fluid should be filtered at some point in the hydraulic system of the tractor.

*** Possible reasons for a major rise in oil temperature:**

- Nominal size of the intake, delivery and return hose lines is too small.
- The oil tank (reservoir) is too small.
- The oil level in the tractor's hydraulic system is too low.
- The oil filter is fouled.
- The required oil quantity is not achieved.
- The setting of the pressure limiting valve on the tractor is too low.

5. Safety:

- Before starting to use the appliances, read through the associated operating instructions and follow their safety instructions without fail.

- No-one is permitted within a radius of at least 10 metres (11 yards) of the appliances mounted on the column lifter during operation, since all rotating or sluing tools constitute a hazard.

- Before use, the hydraulic lines must be examined for signs of damage and ageing and must be replaced if necessary. Note the expiry dates printed on the hoses and possibly also on the screw couplings.

Important: Splashing oil can cause injuries and endanger the environment!

- Goggles must be worn without fail if there is any risk of earth, stones or other objects being hurled aside during operation of the attachments.

- Maintenance and repair work may only be undertaken when the hydraulic lines have been disconnected from the tractor. (Risk of crushing!)

- The column lifter and appliances must never being used by anyone who has not read the safety and operating instructions.

- The accident prevention regulations of the employers liability insurance association must be observed.

- Due to the noise generated when operating the appliances, hearing protection must be worn without fail when working on a tractor with open driver's cab.

- The column lifter and appliances may only be used during sufficient daylight in order to avoid the risk of accidents.

6. Technical data:

Weight	:	approx. 40 kg (88lb) (without appliances)
Dimension without appliances	:	L x W x H : 320 x 600 x 800 mm (12.6 x 23.6 x 31.5“)
Stroke of the column lifter (maximum)	:	400 mm (15.7“)

EC Declaration of Conformity

in accordance with EC Directive 89/392/EEC "Machines", Annex II A

Manufacturer : CLEMENS & Co GmbH
Maschinenfabrik
Rudolf - Diesel - Strasse 8
D-54516 Wittlich / Mosel

We herewith declare that the mechanical design of the

Machine type : Column lifter S-2

complies with the following relevant regulations (Directives):

Directive on machines	89/392/EEC
	Official Journal of the EC, No. L 183/9
Amended by Directive	91/368/EEC
	93/44/EEC
	93/68/EEC

The following harmonized standards have been applied:

DIN EN 292 , Part 1
DIN EN 292 , Part 2

The following national technical standards and specifications have been applied:

DIN v 8418

Particulars of the authorized signatory

Surname, first name: Clemens, Bernd
Position : Managing Director

Wittlich, 16.10.2000 _____
Place, date **Legal signature**

7. Spare parts list:

Customer Service address :

CLEMENS GmbH & Co
Maschinenfabrik
Rudolf - Diesel - Strasse 8
D-54516 Wittlich

Phone: ++49-6571-929-220
Fax: ++49-6571-929-192

See figure 2:

Item No.:	Quantity:	Description:	Order No.:	
1	1	Column	CL 866.3010 00	
2	1	Sliding tube	CL 866.3020 00	
3	1	Clamping bar	CL 866.3030 00	
4	1	Hydraulic hose	CA 845.3620 00	
5	1	Hydraulic cylinder single-acting	CL 895.2700 00	6
2		Bolt	CW003.0113 00	
7	4	Hex screw M16 x 50	0931 16 050	
8	2	Washer D = 20	1440 20	
9	4	Hex nut M 16	0934 16	
10	1	Spring pin D = 4	CW520.0004 00	
11	4	Washer D = 16	CW520.0031 00	
12	2	Conical lubricating nipple SFG 8 x 1	CW570.0001 00	
13	2	Hex screw M12 x 100	0931 12 100	
14	2	Hex nut M 12	0985 12	
15	1	Locking pin D 4,5 x 32	CW520.0005 00	
16	1	Threaded coupling P-GV 12L	CW730.0098 00	

Figure 2: Item No. 15 not displayed